Ellié

XS 2000 HT User Manual

INDEX

Before the installation	pag. 3
Introduction to the use	pag. 4
1 Remote control functions	pag. 5
2 Input panel and keys	pag. 6
3 Connections inputs	pag. 7
- Possibilities of connection to the VGA input	
4 Adjustment via remote control and control rear panel	pag. 9
5 Banks memorizations	pag. 11
- Guide: how to use the bank	
- Pre-memorization (factory pre-set)	
- Example of personalization	
- Chart of the prememorized banks	
6 List of the menu regulations	pag. 14
7 Menu ADJUSTMENT	pag. 15
- Brightness, Contrast, Color, Hue, Black Plus, Gamma	
8 Menu QUALITY	pag. 17
- Peaking, CTI, NTSC matrix	
9 Menu WHITE BALANCE	pag. 18
- R G B dark , R G B bright	
10 Menu SERVICE	pag. 18
- Cut-off	
- White peak	
- W. P. Mode	pag. 19
- B Plus	
- Language	
11 Menu SOURCE	pag. 20
- Input Select, Standard, Comb Filter, VCR/TV	
12 Menu SIZE ADJ.	pag. 22
- V. size, H.size, H. fase, Keystone, Pincushion	
13 Menu CONVERGENCE	pag. 22
- SHIFT R G B ↑ ↓ R G B ← →	
- Corner Adjust, Blanking Top Left Right	
14 Test: internal crosshatch	pag. 24
15 Function of key "A" of the remote control (invert keystone V)	pag. 25
16 Function of key "B" of the remote control (non standard VGA versions)	pag. 25

Before installing, connecting and using the videoprojector

Before proceeding with the installation of the videoprojector, please read carefully the handbooks supplied which contain all information you need for the installation, initial set-up and the use of the videoprojector.

For a correct installation and a proper connection of the video sources, we recommend you to ask for the technical support.

Originally the projector is adjusted for the frontal floor projection and by default it projects on a 2m x 1.5m screen.

The projector has a initial default configuration for the memory banks, which can be programmed again as the customer wishes to, and which represents a goods starting base for the initial set-up operations. Below follows a list of all main configuration features saved by default and the installation handbook describes some further details on this matter.

KEY	INPUT	STANDARD	FORMAT
1	VIDEO1	PAL	4:3
2	VIDEO2	PAL	4:3
3	S-VHS	PAL	4:3
4	VIDEO1	PAL	16:9
5	S-VHS	PAL	16:9
6	VGA IN	640 x 480	VGA 31.5 KHZ
7	VGA IN	800 x 600	VESA 36 KHZ
8	VGA IN	1024 x 768	XGA 35.5KHZ
9	VGA IN	640 x 480	CUSTOM
0	VIDEO1	TEST	

INTRODUCTION TO THE USE OF THE VIDEOPROJECTOR

The commands of the XS 2000 HT are designed for using the videoprojector in the easiest and the most straightforward way possible, still maintaining the possibility of acting on all parameters, also the specifically technical ones, by means of a infrared remote-control.

After having correctly performed the installation and the initial set-up, the user can display the image as he wishes, optimally adjusting it by simply pressing one of the selection buttons from 0..to 9 on the remote control.
During the initial adjustment each one of the 10 buttons is matched, by saving, to the video source and its wide range of functions and adjustments.

The user may save a new condition or retrieve the last one he saved for each button any time he likes.

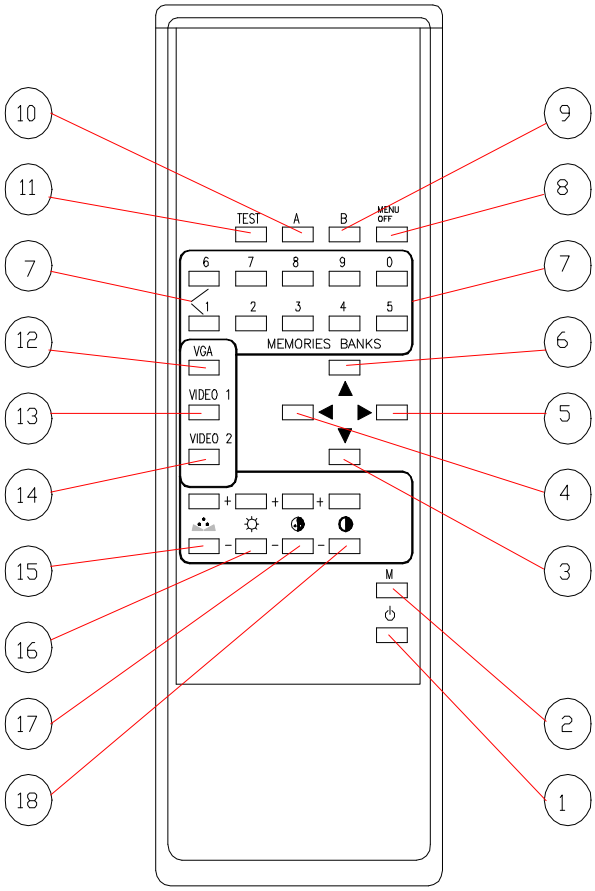
From the remote control the user may also adjust the Brightness, Colour, Contrast and the Chroma control (for the NTSC standards).

The operations for selecting the inputs, the standards, the options, and to fix the dimensions and the quality of the image may be performed directly from the remote control and can be reached by scrolling the menu options displayed (OSD).
When pressing any of the four “arrow” buttons, the menu is made active on the screen
With the ↑ and ↓ buttons you can select the option or the "SUB-MENU" you wish.
With the ← and → buttons you may change the function you wish.
The "OSD" disappears automatically after about 10 seconds from the last operation.

A control panel on the projector grants the possibility of controlling the projector in case the remote control is not working (batteries empty).

To modify or add the configurations, you may temporarily or permanently change the options and the adjustments, read the rest in this handbook, which describes all possible operations and adjustments in detail.

1. THE REMOTE CONTROL
Control and Functions



// Activate test signal in service mode

12.- VGA 1. - Stand-by / On//- On su bank R

2. - Memory

3. - Enter menu - Move menu cursor down 🡻

4. - Quit menu 🡸 - Decrease selected function

5. - Enter menu 🡺 - Increase selected function

6. - Move menu cursor up 🡹

7. - Recall memory bank

8. - Switch off OSD

9. - **//Force autosync

10.-**// Invert TRV

11.- Activate test signal select button

13.- Video1 select button

14.- Video2 select button // SVHS select button

15.- Tint +/- (NTSC)

16.- Brightness +/-

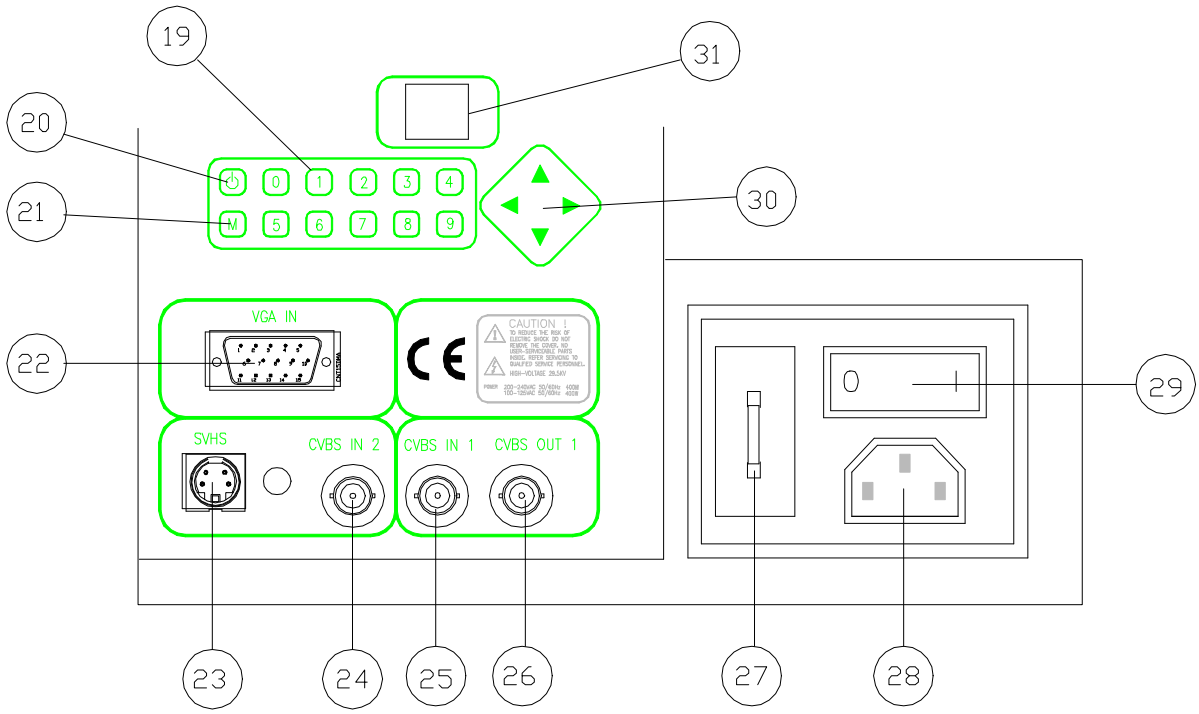
17.- Colour +/-

18.- Contrast +/-

NOTE
Functions preceded by the // symbol are activated by pressing the button for a few seconds.

Functions preceded by the **// symbol are activated only when using test in the service mode.

2. INPUT SOCKET AND CONTROLS

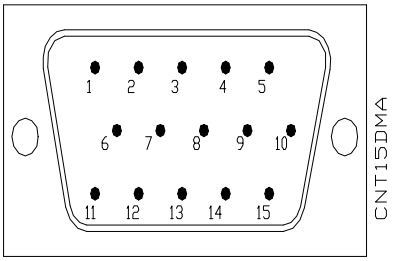


19.- Recall memory bank from 0 to 9.
20.- Stand-by / On
- Recall Bank R. (when switching on after pressing button 29)
21.- Save current configuration in the required Bank.
22.- Standard VGA input socket.
23.- Standard S-VHS input socket.
24.- Video 2 BNC input socket.
25.- Video 1 BNC input socket.
26.- Video 1 output socket crossover (closed 75 Ohm Jumper on board).
27.- Main fuse.
28.- Power socket 220V AC (110V AC).
29.- Power switch.
30.- Adjustment control using “OSD” menu functions.
31.- Infrared receiver.

3. INPUT CONNECTIONS

VGA Input

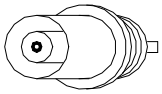
pin1 red signal - pin2 green signal – pin3 blue signal – pin4-5-6- void – pin6-7-8-ground – pin9 void – pin10 ground – pin11-12 void – pin13 H. sync –pin14 V.sync- pin15 void



On this input can be connected standard VGA signal from PC graphic video boards, whose specifications are compatible with the below chart:

SYSTEM TITLE	RES (H xV)	Hfreq (Khz)	Vfreq (Hz)	Sync H	Sync V	Interl
VGA 640x350	640 x350	31.500	70.000	+	-	N
VGA 640x400	640 x 400	31.500	70.000	-	+	N
VGA 640x480	640 x 480	31.500	60.000	-	-	N
XGA (8514/A)	1024 x 768	35.522	86.851	+	+	Y
VESA VS901101	640 x 480	37.861	72.809	-	-	N
VESA 480 75Hz	640 x 480	37.500	75.000	-	-	N
VESA VG900601	800 x 600	35.156	56.250	+	+	N
VESA VG900602	800 x 600	37.879	60.317	+	+	N
NEC 3D PGC	640 x 398	30.303	60.000	-	+	N
NEC 8514/A	1024 x 768	35.52	86.96	+	+	Y
NEC VGA350	720 x 350	31.47	70.09	+	-	N
NEC VGA400	720 x 400	31.47	70.09	-	+	N
NEC VGA480	720 x 480	31.47	59.94	-	-	N
NEC EVGA350	720 x 350	37.86	84.13	+	-	N
NEC EVGA400	720 x 400	37.86	84.13	-	+	N
NEC EVGA480	720 x 480	37.86	72.81	-	-	N
NEC 31khz	720 x 240	31.00	100.00	-	-	N
NEC 38 Khz	782 x 600	38.00	60.703	+	+	N
NOKIA 447X 8	640 x 480	31.472	59.947	-	+	N
NOKIA 447X 9	640 x 350	31.472	70.094	+	-	N
SONY 20-SE 1	624 x 468	31.469	59.940	-	-	N
SONY 20-SE 2	720 x 400	31.469	70.087	-	+	N
SONY 20-SE 10	624 x 468	37.500	75.000	-	-	N
MTBI PC96XA	120 x 780	32.840	80.000	-	-	Y
MTBI TEST50	640 x 576	31.469	50.000	-	-	N
MTBI 31khz	738 x 500	31.500	60.000	-	-	N

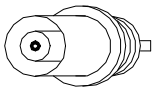
Video 1, Video 2 Input Socket



Composite Video Input

1 Vpp +/- 3dB on 75 Ohm

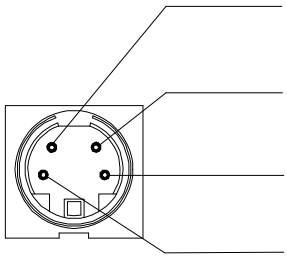
Video 1 Output (crossover)



Video 1 crossover output.

If the socket is connected to a input with a 75 Ohm impedance jumper "J6" (on pcb 07/U board).

open



Signal "C" 250 m Vpp +/- 3dB on 75 Ohm

Signal "C" earth

4. USING THE REMOTE CONTROL AND THE CONTROL PANEL.

Press the "arrow" button 🡻 (3) on the remote control or 🡻 (30) on the control panel. The main "OSD" menu will be displayed. This menu contains those functions that can be adjusted and saved in ten different memory Banks.
All function selections and adjustments are carried out by simply using the four "arrows" 🡻(3),🡸(4),🡺 (5), 🡹(6). Thus you can can easily and clearly scroll through all the funcions in the menu and sub-menus.
A number of rules have been adopted to make the remote control easy to use. Once these rules have been acquired, operations will be simple and istinctive.

MENU
When one of the four "arrow" buttons is pressed "Up, Down, Rt (Right), Lt (Left)," the main menu will be displayed on the "OSD".
Approximately 20 seconds after the last operation the menu will automatically disappear.
To switch off the "OSD" before it automatically switched off itself press the "Menu off" button (8).
A cursor ( ) will appear on the left of the menu. This cursor can be moved using the 🡹 (6) and 🡻 (3) buttons, depending on the menu item required.
Using the 🡺 (5) and 🡸 (4) buttons you can:

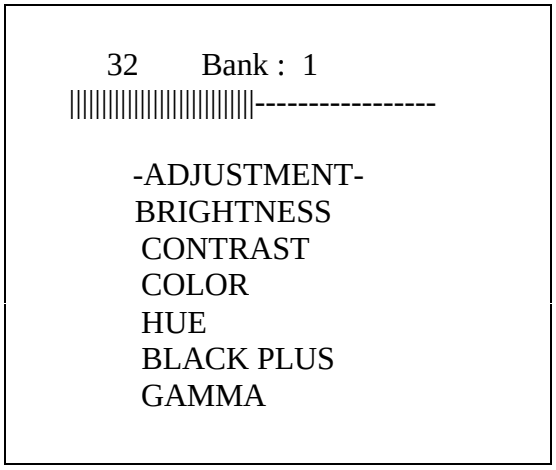
- enter and quit the sub-menus
- adjust the selected functions +/-
- go to the selected function

To return to the previous menu go to the top item in the menu (title) and then press 🡸.
The following examples describe the main OSD messages.

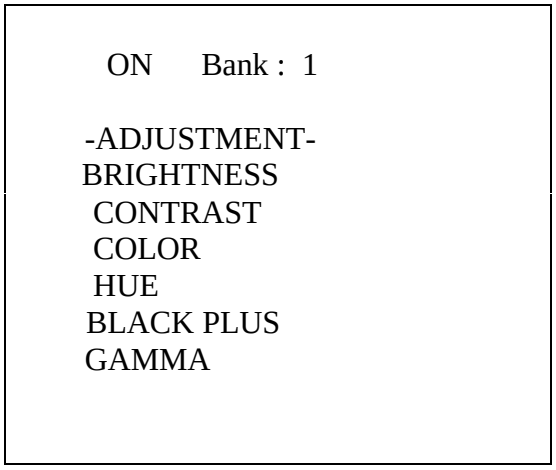
Example 1:
(Bank: 1 recalled bank information)
(MAIN MENU menu title)
(ADJUSTMENT title of selected sub-menu)

Bank: 1

-MAIN MENU-
ADJUSTMENT
QUALITY
SOURCE
SIZE ADJ.
CONVERGENCE

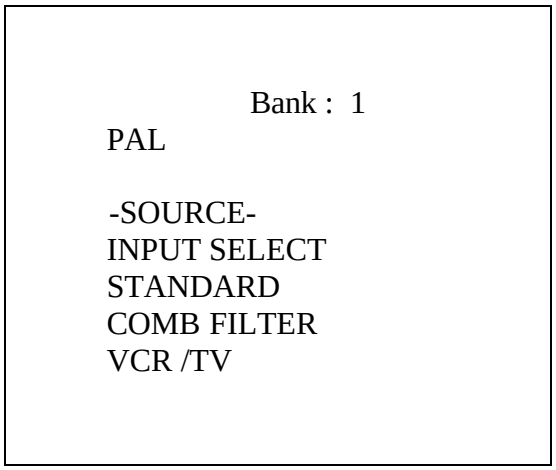


Example 2:
(Bank :1 recalled bank information)
(32 current function value)
(||||||||----- graphic function value)
(ADJUSTMENT sub-menu title)
(BRIGHTNESS selected function)



Example 3:
(Bank :1 recalled bank information)
(ON current state of function)
(ADJUSTMENT sub-menu title)
(BLACK ADJ. selected function)

Example 4:



(Bank :1 recalled bank information)
(PAL information on selected function)
(SOURCE sub-menu title)
(STANDARD name of selected function)

5. SAVING DATA TO A MEMORY BANK

All the functions and adjustments, whether displayed on the "OSD" or not, can be saved in any of the ten available "Banks" using the remote control panel.

To save:

-Switch on the "OSD" (though not necessary, this is advisable so that you can follow the steps better) .

-Press "M" (2) on the remote control ore "M" (21) on the control panel. The Bank number will be cancelled.

-Press any number from 0 to 9 to correspond to the Bank number you want to save all the current configuration data in

(the following messages will be displayed:“Bank : ....”,“Saving “, “ Bank: ....”.)

NB : All the current configuration data for the functions and adjustments will be saved. All the previous data will be completely substituted.

GUIDE FOR USING THE BANKS

Before dealing directly with the use of the Banks, it might be useful to analyse some of their pre-saving features. The "Banks" represent a precious tool for personalising and optimising the performance of the videoprojector. This is because they allow you to save not only those parameters used in common, regarding the image used, but all the working conditions available from the OSD menu, such as dimensions, convergence, performance.

For this purpose, all “Banks” are previously saved by the manufacturer, with the optimising parameters matching the different inputs and the most widely used implementation forms.

PRE MEMORIZATION (FACTORY PRE-SET)

BANK	INPUT	STANDARD	NOTE	FORMAT
R	VGA IN	640 x 480	CUT OFF MODE ON	4:3
0	VIDEO 1	PAL	TEST – CROSSHATCH	4:3
1	VIDEO 1	PAL	COMP. VIDEO - MAIN	4:3
2	VIDEO 2	PAL	COMP. VIDEO – SECOND	4:3
3	S-VHS	PAL		4:3
4	VIDEO 1	PAL		16:9
5	S-VHS	PAL		16:9
6	VGA IN	640 x 480	VGA 31.5 KHZ	4:3
7	VGA IN	800 x 600	VESA 36 KHZ	4:3
8	VGA IN	1024 x 768	XGA 35.5 KHZ	4:3
9	VGA IN	640 x 480	CUSTOM	4:3

The "0" and "9" Banks may present more frequently some pre-setting changes, because these are the ones used for the personalisation.
The "R" Bank cannot be used, even if active, as any other Bank, because it resides in the permanent memory and it was designed for recovering, during the starting phase, a standard configuration (VGA) for service. This Bank is controlled by the st/by (1) button on the remote control or by st/by (20) on the control panel and it is retrieved only pressing such button after activating the network switch. In all other conditions, by pressing the button, you may perform the normal stand-by function.
For all details on the default adjustments, see the table at page 13 of this handbook.

EXAMPLE OF PERSONALISATION

To obtain better results, we suggest to personalise the performance by starting from a standard Bank which uses the input you mean to work with.

EX1: To modifie the size of the picture, in vertical direction, relative to the video signal connected to the input video 1.

1. Select Bank 1 (input video 1)
2. Go to the main menu
3. Select the submenu“SIZE ADJ.”
4. Select the item “V. SIZE” and regulate the right amplitude with the proper cursor.
5. Execute the "Bank memorization" procedure relative to bank 1 (see pag. 11).

CHART OF THE PARAMETERS MEMORIZED IN THE BANKS

(The projector is factory preset with the memorized banks in accordance with the details listed in the following chart).

	FUNCTIONS	BANK R	BANK 0	BANK 1	BANK 2	BANK 3	BAN K4	BANK 5	BANK 6	BANK 7	BANK 8	BANK 9
1	INPUT	VGA	VID 1	VID 1	VID 2	S-VHS	VID 1	S-VHS	640x 480	800x 600	1024x 768	VID 1
2	STANDARD	N/A	PAL	PAL	PAL	PAL	PAL	PAL	N/A	N/A	N/A	PAL
3	COMB FILTER	N/A	ON	ON	N/A	N/A	ON	N/A	N/A	N/A	N/A	ON
4	VCR/TV	OFF	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
5	BRIGHTNESS	23	10	20	20	20	20	20	23	23	23	10
6	CONTRAST	63	63	50	50	50	50	50	63	63	63	63
7	COLOR	50	50	50	50	50	50	50	50	50	50	50
8	HUE	0	0	0	0	0	0	0	0	0	0	0
9	BLACK PLUS	OFF	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
10	GAMMA	0	0	0	0	0	0	0	0	0	0	0
11	PEAKING	4	2	2	2	2	2	2	N/A	N/A	N/A	2
12	CTI	3	1	1	1	1	1	1	N/A	N/A	N/A	1
13	NTSC MATRIX	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
14	R DARK	10	10	30	30	30	30	30	30	30	30	30
15	G DARK	30	30	30	30	30	30	30	30	30	30	30
16	B DARK	30	30	30	30	30	30	30	30	30	30	30
17	R BRIGHT	15	15	10	10	10	10	10	10	10	10	15
18	G BRIGHT	30	30	30	30	30	30	30	30	30	30	30
19	B BRIGHT	30	30	30	30	30	30	30	30	30	30	30
20	V SIZE	15	15	15	15	15	45	45	15	28	28	15
21	H SIZE	10	15	20	20	20	20	20	20	20	20	15
22	H PHASE	32	23	30	30	30	30	30	40	30	40	23
23	KEYSTONE	38	38	40	40	40	40	40	40	40	40	38
24	PINCUSHION	30	30	15	15	15	40	40	15	25	25	30
25	SHIFT R V	50	50	50	50	50	50	50	50	50	50	50
26	SHIFT G V	50	50	50	50	50	50	50	50	50	50	50
27	SHIFT B V	50	50	50	50	50	50	50	50	50	50	50
28	SHIFT R H	50	50	50	50	50	50	50	50	50	50	50
29	SHIFT G H	50	50	50	50	50	50	50	50	50	50	50
30	SHIFT B H	50	50	50	50	50	50	50	50	50	50	50
31	CORNER ADJ	40	40	40	40	40	40	40	40	40	40	40
32	BLANKING	OFF	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	ON
33	BLANK TOP	0	0	30	30	30	30	30	0	0	0	0
34	BLANK LEFT	0	5	15	15	15	15	15	5	5	5	5
35	BLANK RIGHT	63	50	36	36	36	36	36	50	50	50	50
36	CUT OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
37	WHITE PEAK	63	63	63	63	63	63	63	63	63	63	63
38	W P MODE	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
39	B PLUS	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
40	LANGUAGE	ENGL	ENGL	ENGL	ENGL	ENGL	ENGL	ENGL	ENGL	ENGL	ENGL	ENGL

6. LIST OF THE MENU REGULATIONS

-MAIN MENU-

ADJUSTMENT
- BRIGHTNESS
- CONTRAST
- COLOR
- HUE
- BLACK PLUS
- GAMMA

QUALITY
- PEAKING
- CTI
- NTSC MATRIX

-WHITE BALANCE
- R DARK
- G DARK
- B DARK
- R BRIGHT
- G BRIGHT
- B BRIGHT

- SERVICE
- CUT OFF
- WHITE PEAK
- W. P. MODE
- B PLUS
- ITALIAN

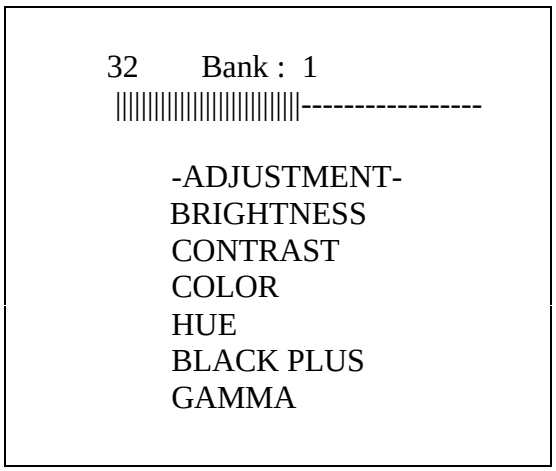
SOURCE
- INPUT SELECT
- STANDARD
- COMB FILTER
- VCR /TV

SIZE ADJ.
- V SIZE
- H SIZE
- H PHASE
- KEYSTONE
- PINCUSHION

CONVERGENCE
- **SHIFT**
  - v R ^
  - v G ^
  - v B ^
  - < R >
  - < G >
  - < B >
- CORNER ADJ.
- BLANKING
- - TOP
- - LEFT
- - RIGHT

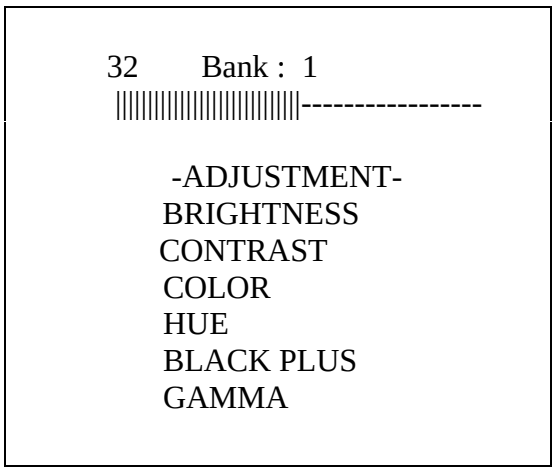
7. MENU ADJUSTMENT

Brightness



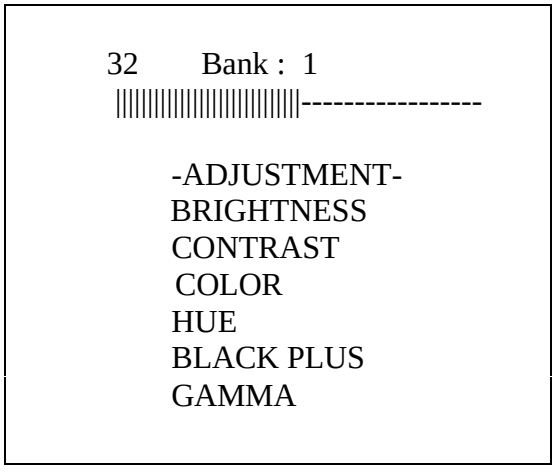
To adjust the brightness select the menu function and then press the ➔ button to increase it or the ← button to decrease it.
If you press buttons (16) on the remote control you can immediately activate brightness control without having to use the "OSD" menu.

Contrast



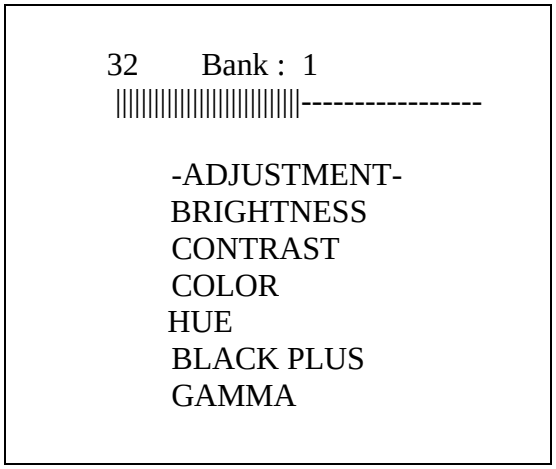
To adjust the contrast select the menu function and then press the ➔(5) button to increase it or the ← (4) to decrease it.
If you press buttons (18) on the remote control you can immediately activate contrast control without having to use the "OSD" menu.

Color (Saturation)



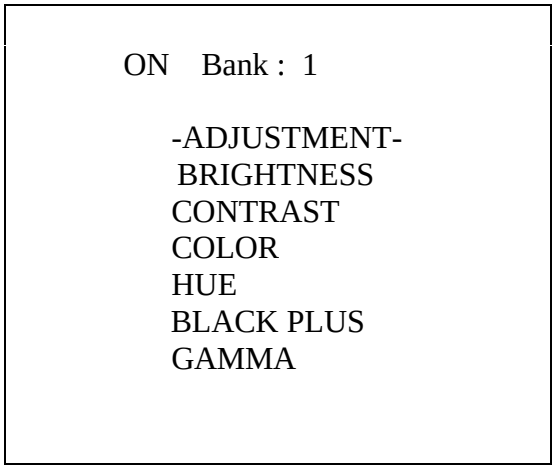
To adjust the color saturation select the menu function and then press the ➔ (5) button to increase it or the ← (4) button to decrease it.
If you press buttons (15) on the remote control you can immediately access tint control without having to use the "OSD" menu.

Hue



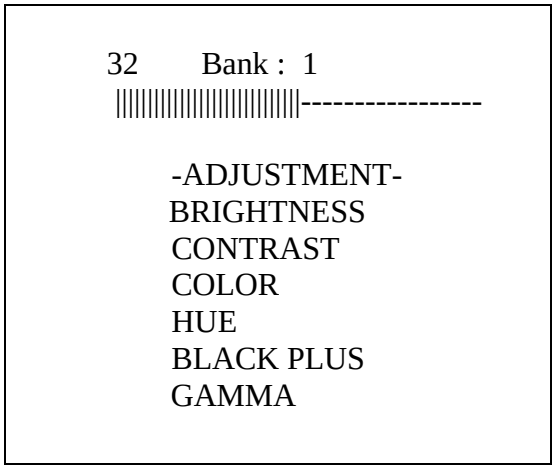
To adjust the tint in standard NTSC select the menu function and then press the ➔ (5) button to increase it or the ← (4) button to decrease it.
If you press button (15) on the remote control you can immediately access tint control without having to use the "OSD" menu.

Black plus (adjustment)



When switched on, this function will activate a special circuit, "adaptive black stage", which automatically adjusts the darker parts of the picture, as analysed during the scanning stage, to the nominal black level. Thus better contrast is achieved.
When you have selected this function in the menu it can be switched on or off by using the ➔ (5) ON or the ← (4) button OFF .

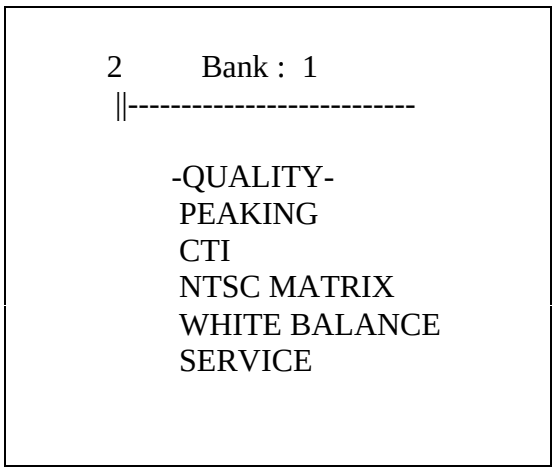
Gamma correction



This function allows for a non-linear increase in the video signal; thus amplifying the darker areas of the picture. The darker scenes of the picture will be clearer.
To adjust the gamma correction select the menu function and then press the ➔ (5) button to increase it or the ← (4) button to decrease it.

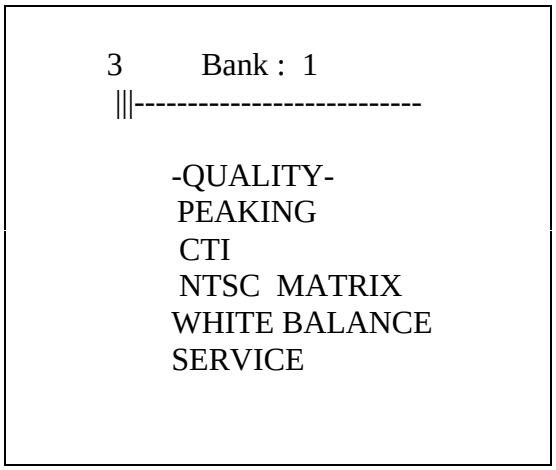
8. MENU QUALITY

Peaking



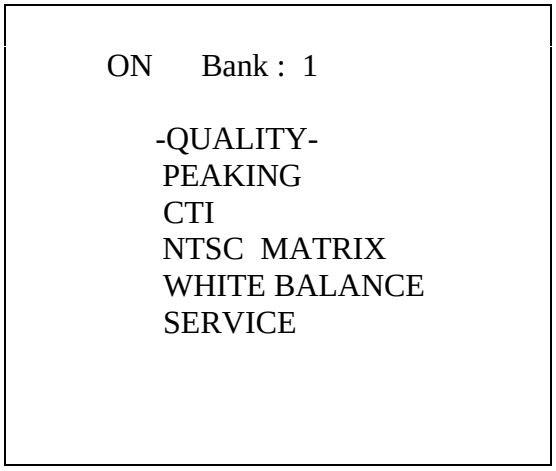
Use this function to adjust the amplifier video signal response curve to sharpen or enhance image details.
To adjust peaking select the menu function and then press the ➔ (5) button or the ➔ (4) button to make the required adjustment.

CTI (Color Transient Improvement)



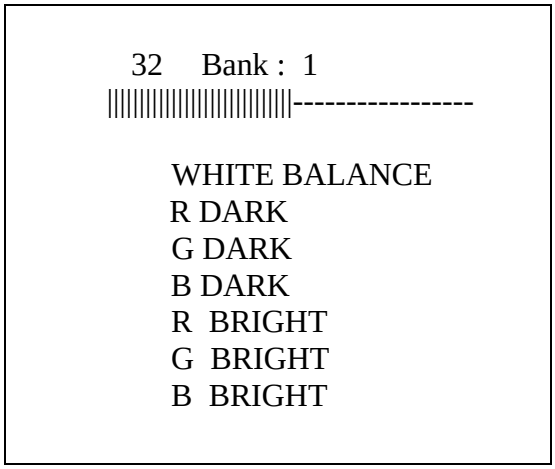
This function controls a circuit that enhances the color signal communication fonts; thus the picture colors will be sharper.
To adjust CTI select the menu function and then press the ➔ (5) button or the ➔ (4) button to make the required adjustments..

NTSC matrix



This function is to decode the signal to and from the NTSC signal.
To activate or deactivate select the menu function and then press the ➔ (5) button or the ➔ (4) button to choose the required mode..

9. MENU WHITE BALANCE



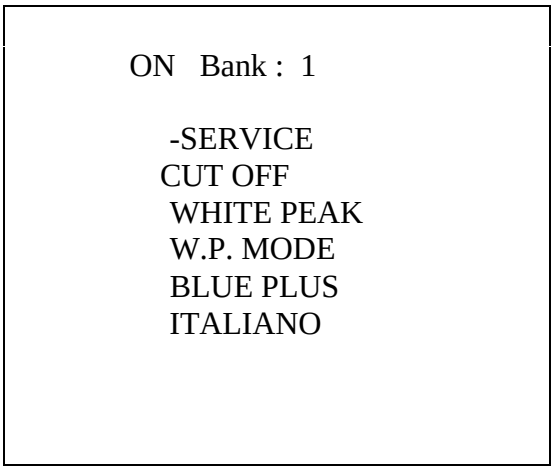
These six functions allow you to adjust the colour temperature to your requirements.
When using this function you must observe certain criteria that are linked to the pre-set parameters Particularly, if the Cut-off function in the "Service" menu is set to "ON" then the "R,G,B, dark" function cannot be activated.
To adjust the white balance select the menu function and then press the ➔ (5) button or the ← (4) button to increase or decrease the required colour temperature alignment in the dark-grey areas of the picture, whereas "R,G,B, bright" work mainly in the white areas of the picture.
To correctly adjust these parameters temporarily lower the color saturation to zero and then adjust the black-and-white picture.

10. MENU SERVICE

This menu contains certain functions that are mainly required when initially setting-up the projector. Please do not change these parameters if you are not 100% sure of the results. To avoid accidental and changes to important parameters, such as the manual or automatic cut-off, a safety device has been build in to stop access to the "SERVICE" menu. Thus, if you want to enter this menu you must select the "SERVICE" function and then press the ➔ (5) button for about 10 seconds, until the required menu list is displayed.
(While this button is pressed the cursor ” “ must not flash.)

CUT OFF (automatic/ manual)

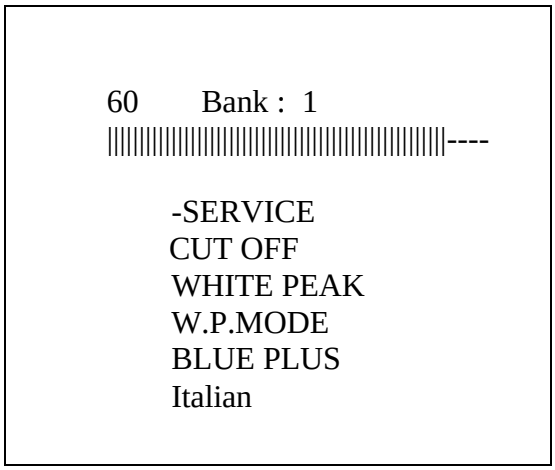
! This function should be used by the installation technician only.



To change the power circuit that controls cathode ray tube cut-off from the automatic to the manual mode, select the required item and then press ➔ (5) “ON” and ← (4) “OFF”.
Change over from one function mode to another means that linked parameters will have to be adjusted; brightness, contrast, white balance, black adj.
The cut-off function mode con also be saved in any Bank you want.

White peak (limiter) and
W. P. mode (white peak limiter absolute/ relative to cut-off)

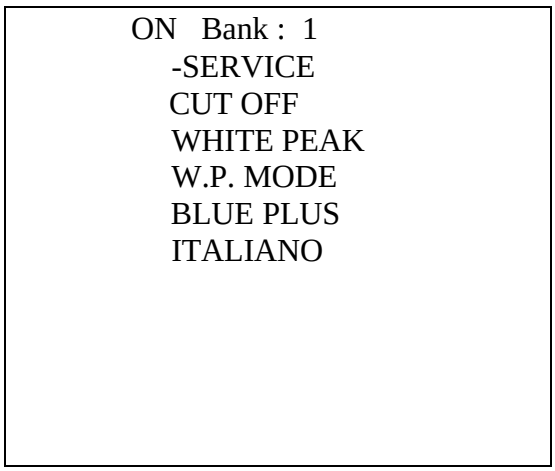
! <u>This function should be used by the installation technician only!</u>



These two functions are tied to each other.
When the "W.P. MODE" function is switched "ON" / "OFF" the "white peak" adjustment mode is set.
When "W.P. MODE" is in the "ON" position the signal white peaks, as controlled by the "white peak", are limited with due consideration to the amount of black.
When "W.P. MODE" is in the "OFF" position the signal white peak, as controlled by the "white peak", are unlimited, i.e. without taking into consideration the amount of black in the picture.
To activate or deactivate this function, select the specific menu function and the press the ➔(5) button or the ←(4) button to choose the required mode.

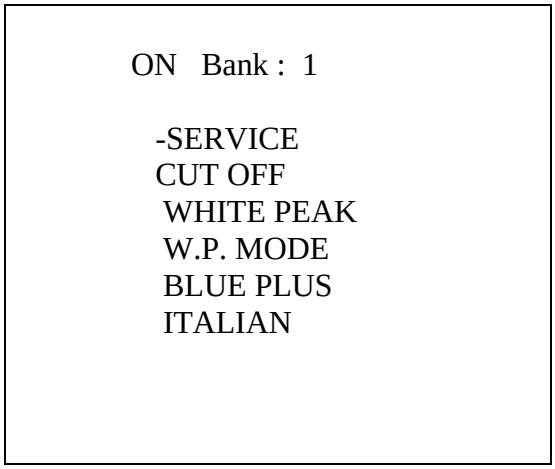
NB: A decrease ←in “white peak” in the limited function may cause te whole picture to disappear. If so, return to the higher values using the ➔ button, even if the picture has totally disapperared, and wait until the picture returns. This will occur an automatic warming-up cycle. Alternatively, you may recall the previous values by recalling the current Bank.

BLUE PLUS (STRETCH)



This function activates a special circuit that, if the amount of blue in the picture exceeds 80% of the nominal signal, will increase the blue circuit power so that the color temperature rises, thus increasing the brightness of the white areas of that picture. To activate or deactivate select the menu function and then press the ➔(5) button “ON” or the ← (4) button “OFF” to choose the required mode.

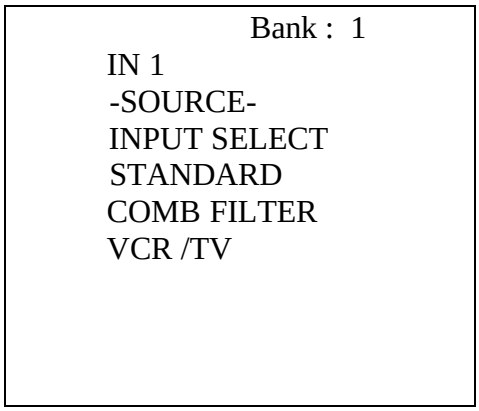
LANGUAGE



The menus are in two languages.
You can select either of the languages for each memorized Bank.
To select the languages use the ➔ (5) button and the ← (4) button.
Menu item will be update when the "OSD" buffer is refreshed..

11. MENU SOURCE

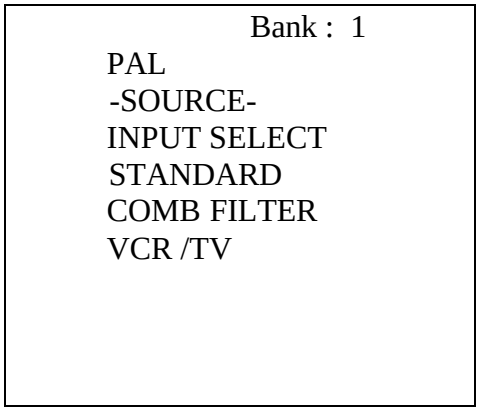
Selecting the inputs



After the selection of “INPUT SELECT” then switch, in sequence, with the ➔ (5) and ← (4) buttons, all the input signals displayed on the screen:
IN1 IN2 SVHS VGA
With the (12), (13), (14) buttons on the remote control you may directly switch the VGA, IN 1, IN 2 inputs respectively, while holding for some seconds button (14) pressed, you switch on the SVGA input without the support of the "OSD" menu.
After choosing one input, you need to select the standards and adjust all the other possible parameters to obtain the best screen result.

In each Bank...is also saved the information regarding the selected input, you may therefore match any input you like and the whole corresponding configuration, to each Bank... .
When choosing the connections to the video inputs, it is important to consider their features, that is:
IN1 video in 1 BNC composite video (PAL/NTSC/ SECAM forced)
COMB FILTER executable for PAL and NTSC
IN2 video in 2 BNC composite video (PAL/NTSC/ SECAM forced)
S-VHS Y / C (PAL/NTSC/ SECAM forced)
VGA standard "SUB-D 15 pin "

STANDARD SELECTION



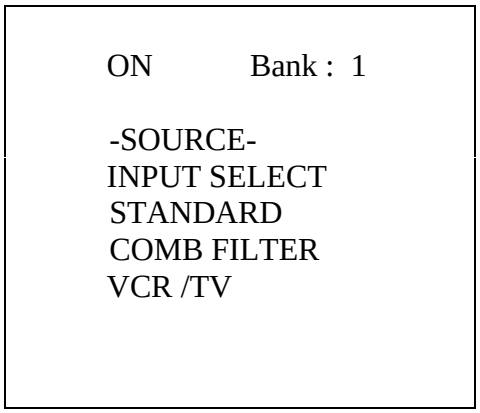
The standard selection is adjusted by default to manually set one of the following standards, by acting in sequence on the ➔ (5) or ← (4) buttons:

- SELECT ➔ - PAL - NTSC - SECAM

When selecting a standard, all functions needed for decoding the signals in the standard chosen are automatically adjusted.

When the –SELECT ➔ message is displayed, the program invites you to manually select the proper standard. The decoder recognises automatically the PAL and NTSC standards, however, for a reliable performance, under any signal condition, we suggest to choose and save in the Bank the right standard.

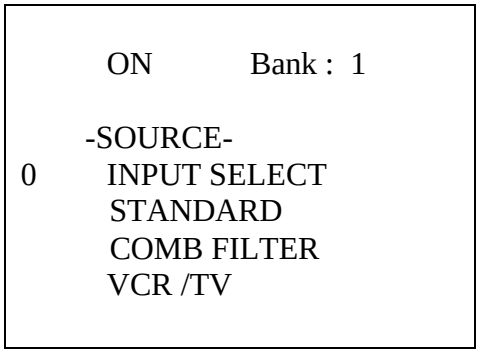
COMB FILTER



The COMB FILTER may be activated only for the input signals from " IN 1 " and in the PAL or NTSC standards. In all other cases the ' "OSD" will report the writing " N / A " (not available).

For activating and deactivating the COMB FILTER, always act on the ➔ (5) "ON", and ← (4) "OFF" buttons.

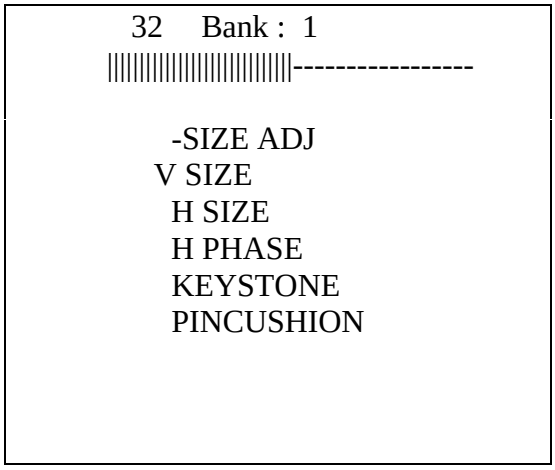
VCR / TV (time costant)



For the function with signals coming from the VCRs, the " VCR/TV" function must be switched to “ON”. In this way you may obtain a more rapid and flexible linking of the synchronism signals

12. MENU SIZE ADJ.

SIZE ADJ.



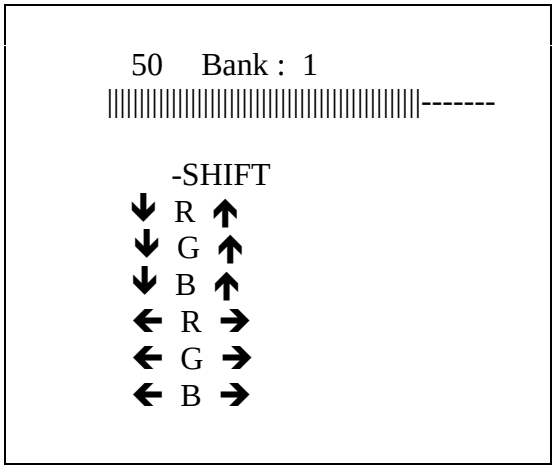
The adjustment values in this menu act respectively on the image geometry and the size:
- vertical size
- horizontal size
- horizontal phase
- keystone
- pincushion (E W)

The parameters are adjusted by choosing the option wished from the menu and by acting on the ➔ (5) and ➔ (4) buttons to increase or decrease the function you wish.

All parameters may be saved in the Banks. You may therefore save any different format you like in the different Banks (for example 4:3 or 16:9).
NB: We would like to remind you that sensible vertical size variations need a variation in the correction of the "corner adj." corner convergence.

13. CONVERGENCE

SHIFT

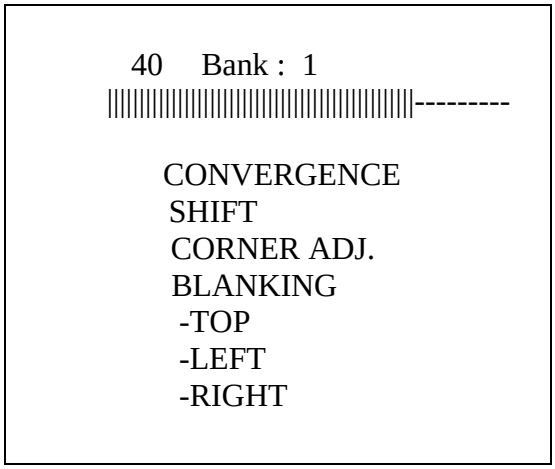


By adjusting these six functions you may correct the static convergence from the remote control.
The adjustment is performed by choosing in sequence the option you wish from the menu and acting on the * (5) or * (4) buttons to adjust the function you like.

NB: The value "50" on the "OSD" corresponds the zero value of the correction.

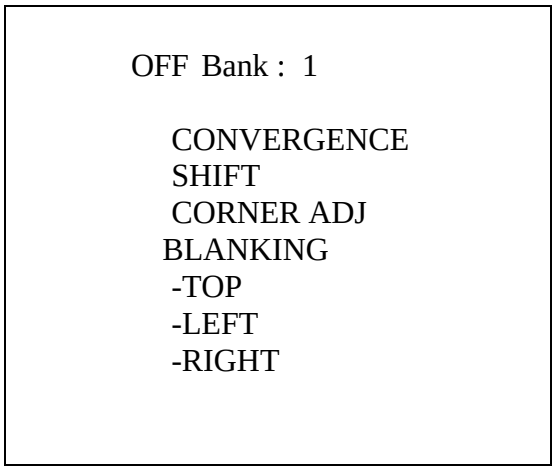
In order to avoid any contrasting adjustment overlapping, with an useless energy waste, during the installation we suggest you to compensate any possible shift problem using the magnetic centring rings, so that the optimal regulations from the remote control remain near value "50".

CORNER ADJUSTMENT COMPENSATION



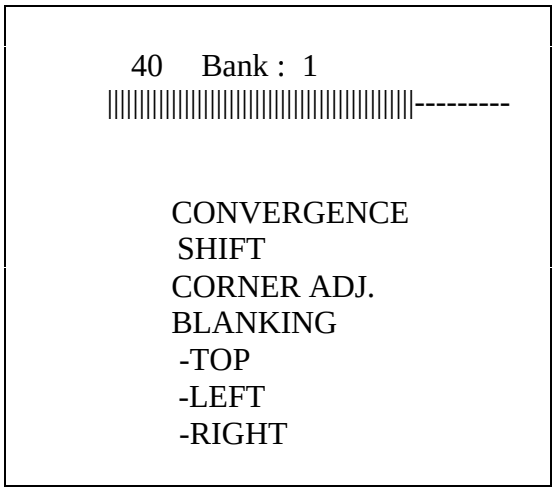
The dynamic convergence adjustments to the image corners are globally performed by this function which allows you to dose the correction needed according to the variation of the image format (particularly for the vertical size).
The adjustment is made by choosing the option desired from the menu and acting on the ➔ (5) button to increase or ← (4) button to decrease the correction.
We recommend to perform the adjustment when installing the new image formats.
During the installation the convergence is performed after having set the "Corner adj." on "40"

BLANKING



The image margins are off when the blanking function is "ON ", while when it is "OFF" the image margins are visible.
The blanking function acts as function switch:
- TOP ,(adjustment of the top margin)
- LEFT, (adjustment of the left margin)
- RIGHT,(right, adjustment of the right margin)

To activate and deactivate the blanking function act on the ➔ (5) or ← (4) buttons.



- TOP ,(adjustment of the top margin)
- LEFT, (adjustment of the left margin)
- RIGHT,(adjustment of the right margin)

The image quantity when off can be adjusted as wished by selecting the option desired and acting on the ➔ (5) or ← (4) buttons.

NB: When adjusting the "right and left" functions in "VGA" mode you may improperly switch the screen off because of the great adjustment excursion to contain the difference in the scanning intervals, that must be considered as normal, as long as in the adjustment range the screen is switched off as desired.
In case of "computer" signals, considering the precision of the image margins and the absence of noises during the scanning return intervals , the blanking function is very often useless, therefore it might be convenient to deactivate it.

14. TEST SIGNAL GENERATOR

Press button (11) on the remote control to activate the white test signal field. Press the button again and the test signal will disappear.
If button (11) is kept pressed for a few seconds the test signal generator will be activated in a second mode, "service test mode". If the same button (11) is pressed in this mode it will normally change the field color one at a time from the most useful colors to the convergence operation. To quit this particular mode keep button 11 pressed until the test field disappears.

Function of key “A” (10) on the remote control
(invert keystone V)

(See also installation manual)

This button can only be used when the test signal generator has been activated (11 in the second function mode "service test mode"). This function is used when installing the projector to make any correction to the keystone, based on the kind of fixing base (ceiling-floor).
When the projector is installed and set up the best function, based on the kind of projection, must be saved in all the Banks.
NB
So as not to lose the setting in the various Banks while updating the keystone function only proceed as follows:

Recall Bank 1 , select **the second test mode**, press button “A” (10) on the remote control and select the correct keystone phase, quit the test signal mode, press button "M" (2) and then button Bank 1.
At this point the pre-existing data in Bank 1 will be saved along with any adjustment made to button "A" only.

Recall Bank 2, select **the second test mode**, press button "A" (10) on the remote control and select the correct keystone phase, quit the test signal mode, press button "M" (2) and then button Bank 2.
At this point the pre-existing data in Bank 1 will be saved along with any adjustment made to button "A" only.
.....carry out the same operation for all the other 8 Banks.

16. Function of key “B” (9) of the remote control.

This button forces the horizontal synchronise circuit into the "autosync" mode.
The button will only be activated when the second test mode has been activated.
Forcing in the "autosync" mode is useful to synchronise video signals from graphic boards that, even though they work with parameters within the standard VGA range, do not meet the specifications.